

OIP/E JC66
MAY 05 2033
PATENT & TRADEMARK

1/7
Thermal Hysteresis (°C)

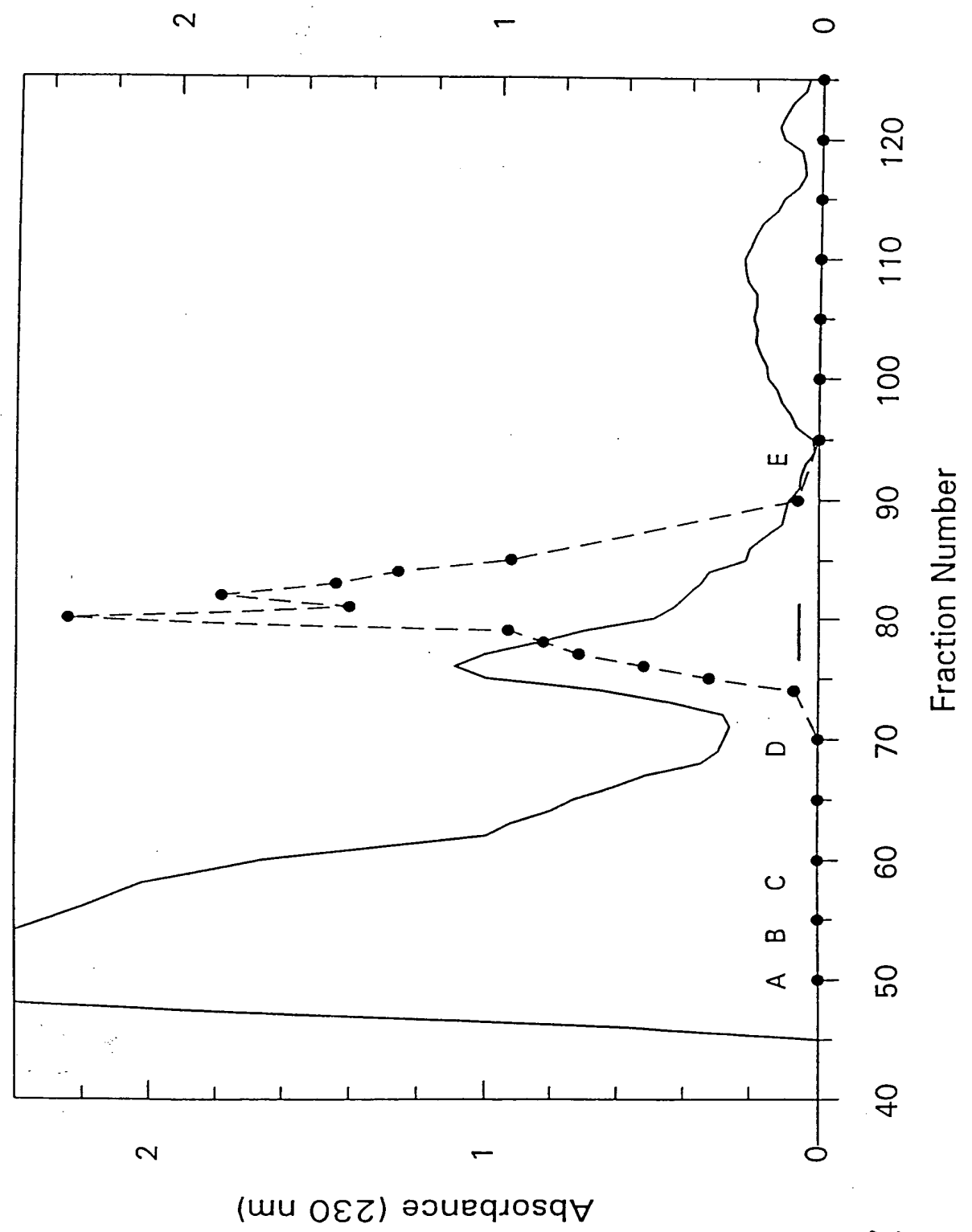


FIG. 1.

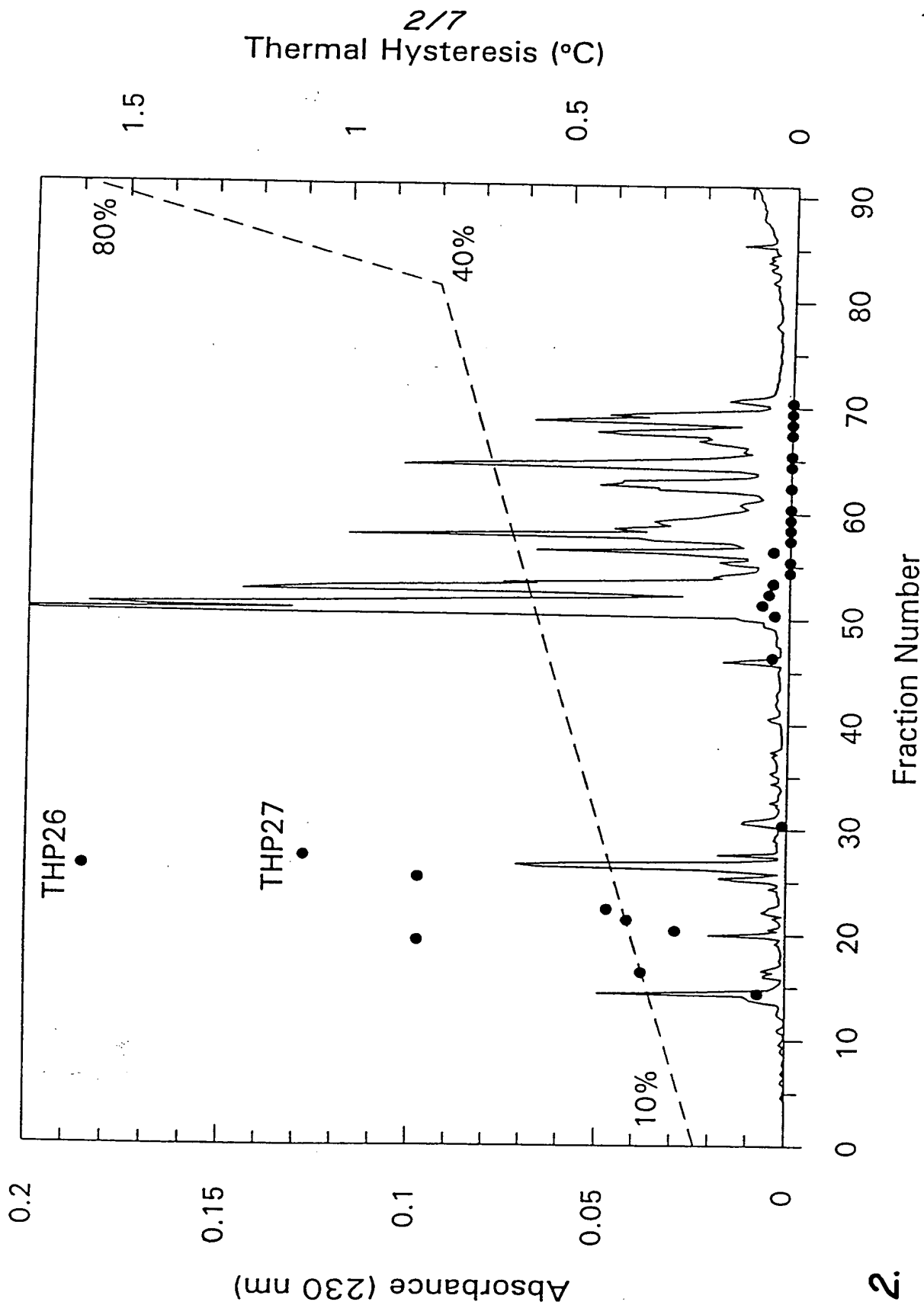
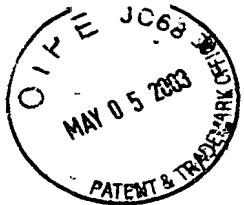


FIG. 2.

Fraction Number

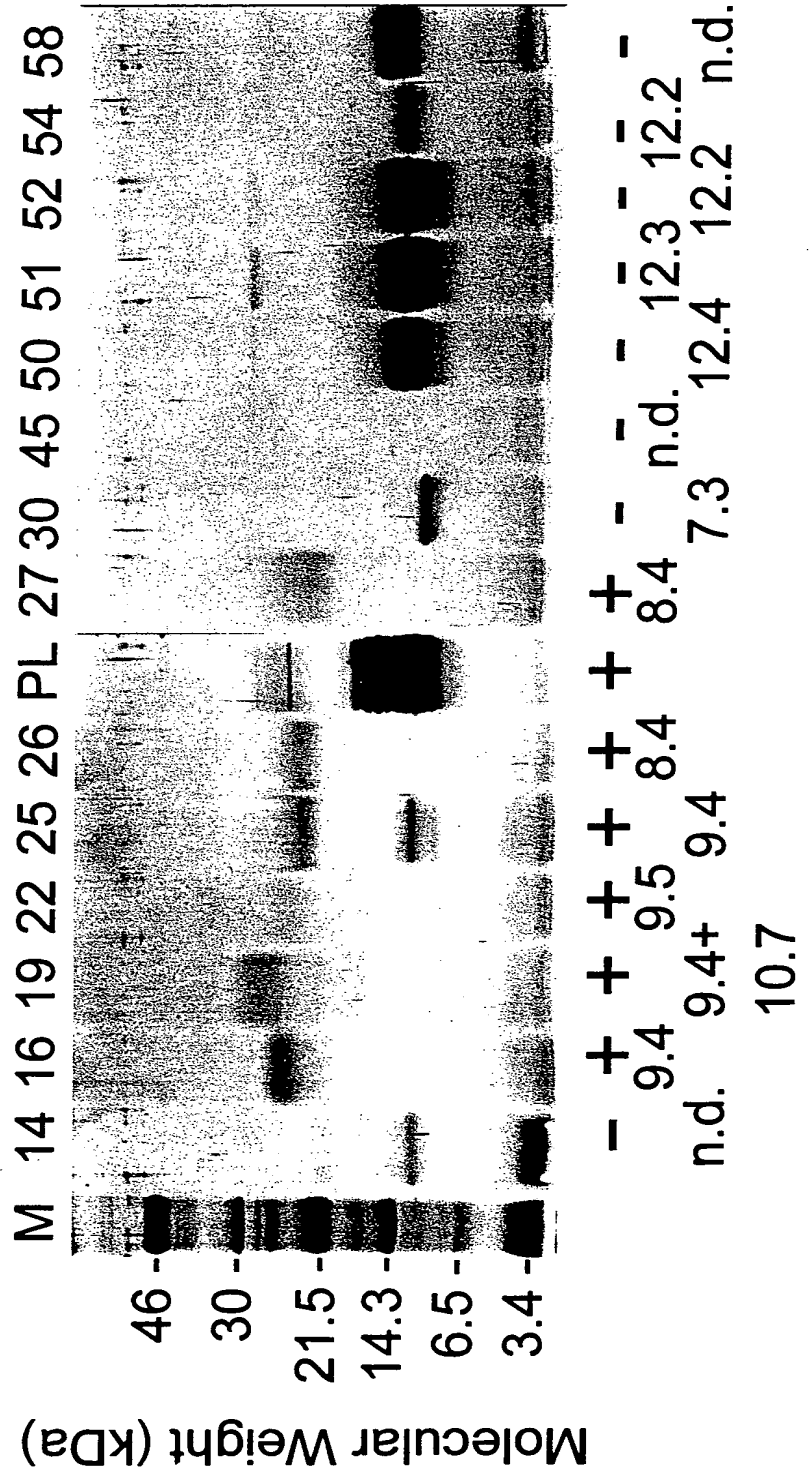


FIG. 3.

4/7

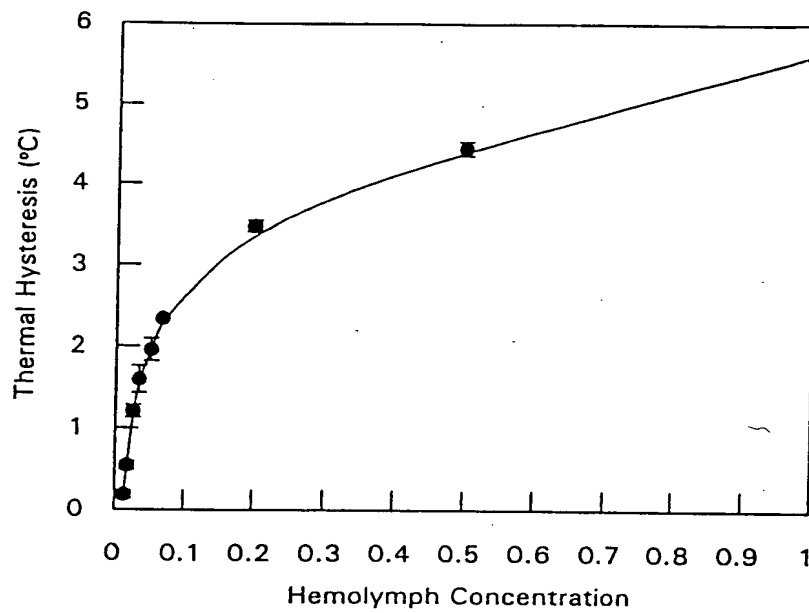


FIG. 4.

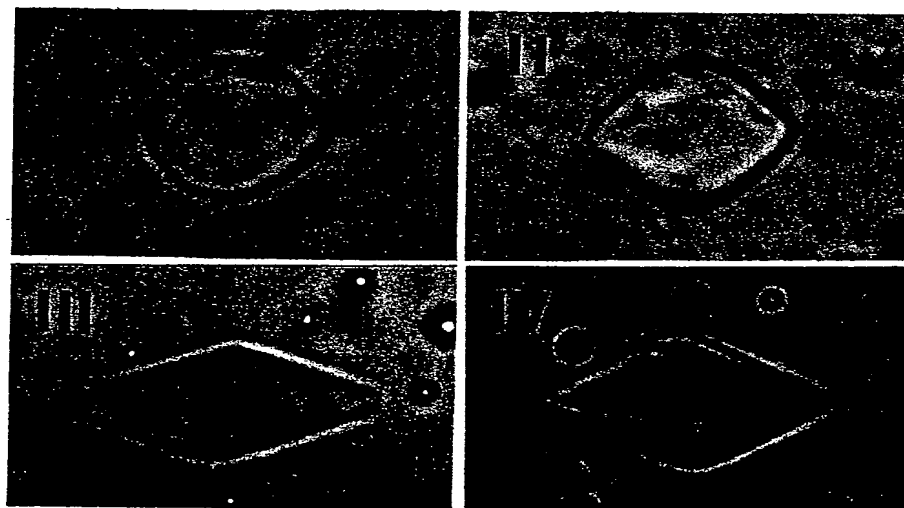
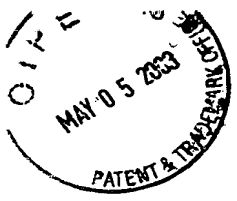


FIG. 5.



5/7

YL-1 TAAACAGCGAGATAAACAACAATACTACATAAACTATGGCGTTCAAAACGTGTGGTTTTTC
YL-2 AAACAATATTACAAAAAACTATGGCATTCAAAACGTGTGGTTTTTC
YL-4 CAAAAAAGTATGTCATTCAAAATAAGTACTTTTAC
YL-3 AAACAACAATATTACAAAAAACTATGGCATTCAAAACGTGTGGTTTTTC
5-15 AAACAGCGAGATAAACAACAATATTACAAAAAACTATGGCATTCAAAACGTGTGGTTTTTC

YL-1 M A F K T C G F S
YL-2
YL-4 5' UNTRANSLATED REGION . S . . I S T . T
YL-3
5-15

YL-1 AAAAAAATGGTTAGTAATAGCAGTTATAGTTATGTGTTTGTGTACCGAGTGTATTGCCAC
YL-2 AAAAAAATGGTTAGTAATAGCAGTTATAGTTATGTGTTTGTGTACCGAGTGTATTGCCAA
YL-4 AAAAATCTGGTTAATTATAGCAGTTATCGTTATGTGTTTGTGTAAACGAGTATAATTGCCAG
YL-3 AAAAAAATGGTTAATAATAGCAGTTATAGTTATGTGTTTGTGTACCGAGTGTATTGCCAA
5-15 AAAAAAATGGTTAATAATAGCAGTTATAGTTATGTGTTTGTGTACCGAGTGTATTGCCAA

YL-1 K K W L V I A V I V M C L C T E C Y C H
YL-2 Q
YL-4 . I . . I N . Y N . Q
YL-3 I Q
5-15 I Q

YL-1 TGC ACTGGGGGTGCTGATTGTACTAGTTGTACAGATGCATGC ACTGGTTGTGGAAATTGTC
YL-2 TGC ACTGGGGGTGCTGATTGTACTAGTTGTACAGGAGCATGC ACTGGTTGTGGAAACTGTC
YL-4 TGC ACTGGGGGTGCTGATTGTACTAGTTGTACAGCAGCATGC ACTGGTTGTGGAAACTGTC
YL-3 TGC ACTGGGGGTGCTGATTGTACTAGTTGTACAGCAGCATGC ACTGGTTGTGGAAAGTTGTC
5-15 TGC ACTGGGGGTGCTGATTGTACTAGTTGTACAGCAGCATGC ACTGGTTGTGGAAAGTTGTC

YL-1 C T G G A D C T S C T D A C T G C G N C
YL-2 G
YL-4 . . . A A
YL-3 A S .
5-15 A S .

YL-1 CAAATGCACATACGTGTACCGATTCCAAAAATTGTGTCAAGGCAGCA-----
YL-2 CAAATGCAGTAACGTGTACCAATTCTCAACATTGTGTCAAGGCAAAT-----
YL-4 CAAATGCATAACGTGTACCGTTCTAAAAATTGTGTCAAGGGCAACA-----
YL-3 CAAATGCGCATACGTGTACCGATTCTAAAAATTGTGTCAAGGGCAGAAACGTGTACCGATTC
5-15 CAAATGCGCATACGTGTATCGATTCTAAAAATTGTGTCAAGGGCAGAAACGTGTACCGATTC

YL-1 P N A H T C T D S K N C V K A A -----
YL-2 . . . V . . . N . Q H . . . N -----
YL-4 . . . I . . . G R . T -----
YL-3 R . E T C T D S
5-15 I R . E T C T D S

FIG. 6.

(1/3)

YL-1 -----ACATG TACTGGATCTACAAAATGTAATACCGCCAGGACG
YL-2 -----ACATG TACTGGGTCTACAGATTGTAATACAGCCCAGACG
YL-4 -----ACATG TACTGGGTCTACAAACTGTAATAGAGCCACGACG
YL-3 TGAAAATTGTGTCAAGGCACATACATGTACTGGATCTAGAAACTGTAATACAGCCATGACG
5-15 TGAAAATTGTGTCAAGGCACATACATGTACTGGATCTAGAAACTGTAATACAGCCATGACG
***** * * * *
YL-1 ----- T C T G S T K C N T A R T
YL-2 ----- D . . . Q .
YL-4 ----- N . . R . T .
YL-3 E N C V K A H R N . . . M .
5-15 E N C V K A H R N . . . M .

YL-1 TGTACAAACTCAAAAGACTGTTTTGAAGCCAAAACATGTACTG-----
YL-2 TGTACAAACTCAAAAGACTGTTTTGAAGCCAAACATGTACTG-----
YL-4 TGTACAAATTCAAAAGGCTGTTTAGAAGCCACAACATGTACTGGGTCTACACACTGTCATA
YL-3 TGTACAAACTCAAAAGACTGTTTTGAAGCCAAAACATGTACTG-----
5-15 TGTACAAACTCAAAAGACTGTTTTGAAGCCAAAACATGTACTG-----

YL-1 C T N S K D C F E A K T C T -----
YL-2 N . . . -----
YL-4 G L . . T . . G S T H C H
YL-3 -----
5-15 -----

YL-1 -----
YL-2 -----
YL-4 GAGCCACGACGTGTACAAATTCAAAAGACTGTTTTGAAGCCACAACATGTACTGGCTCAAG
YL-3 -----
5-15 -----

YL-1 -----
YL-2 -----
YL-4 R A T T C T N S K D C F E A T T C T G S S
YL-3 -----
5-15 -----

YL-1 -----ACTCAACCAACTGTTACAAAGCTACAGCCTGT
YL-2 -----ACTCAACCAACTGTTACAAAGCTACAGCCTGT
YL-4 CAACTGTTACTGCTACAACATGTACTAACTCAACCAACTGTTACAAAGCTACAGCCTGT
YL-3 -----ACTCAACCAACTGTTACAAAGCTACAGCCTGT
5-15 -----ACTCAACCAACTGTTACAAAGCTACAGCCTGT

YL-1 ----- D S T N C Y K A T A C
YL-2 -----
YL-4 N C Y T A T T C T N
YL-3 -----
5-15 -----

FIG. 6.
(2/3)

YL-1 ACCAATTCAACAGGATGTCCCGGACATTAAGTTTTTCTATTGTCAACAAT--AATAAAACA
YL-2 ACCAATTCATCAGGATGTCCCGGACATTAAGTTTTTCTATTGTCAACAAT--CATAAAACA
YL-4 ACCAATTCAACAGGATGTCCCGGACATTAGGTTTTTTTATTGTCAACAATAAAATAAAACA
YL-3 ACCAATTCAACAGGATGTCCCGGACATTAAGTTTTTCTATTGTCAACAAT--AATAAAACA
5-15 ACCAATTCAACAGGATGTCCCGGACATTAAGTTTTTCTATTGTCAACAAT--AATAAAACA

YL-1 T N S T G C P G H
YL-2 . . . S
YL-4
YL-3
5-15
3' UNTRANSLATED REGION
YL-1 CACTTACTGTTATCTTAGCTAAACATAATTGTAAGC-TCACTCTGTTTTGTATCCTATCT
YL-2 CAATTATTGTTAGCTAAGTTAAACT---CTGTA-----TTGTATCCGATC-----T
YL-4 AAAGTGTCTTATCTAAGCTAAACATAAATGTAAACGTTAATTGTATTCTATCCGATCT
YL-3 C-GGAGGGATAGTCTAAGCTAAACATAATTGTAAGC-TTACTCTGTATTGTATCCGATCT
5-15 C-GGAGGGATAGTCTAAGCTAAACATAATTGTAAGC-TTACTCTGTATTGTATCCGATCT
* ** * ***** * * * *
YL-1 GTCTCT--GCCTCCGAAGGATGATAATTTTGTACTGGGAGCGAAAGGTTTATCCGACAATA
YL-2 GTCTCTTTGCCTCCCAAGGATGATAATTTTGTACTGGGAGCGAAAGGGTTATCCGACAATA
YL-4 GTCCCTTTGCGCCCTAAGGA---TAATTTTGTACAGGGAGAGAAAAGGCTATCCGACAATA
YL-3 GTCTCTTTGCCTCCCAAGGATGATAATTTTGTACTGGGAGCGAAAGGGTTACCGGACAATA
5-15 GTCTCTTTGCCTCCCAAGGATGATAATTTTGTACTGGGAGCGAAAGGGTTACCGGACAATA
*** ** * * ***** * * * *
YL-1 ATA-----AACTAAAATAATTGATATAAAAAAAAAAAAAAAAAA
YL-2 ATA-----AACTAAAATAATTGATATAAAAAAAAAAAAAAAAAA
YL-4 ATA-----AACATTGTTAATATACATAAAAAAAAAAAAAAAAAA
YL-3 ATAATTAATAAACTAAA-TAATTG--ATAAAAAAAAAAAAAAAAAA
5-15 ATAATTAATAAACTAAAATAATTGATATAAAAAAAAAAAAAAAAAA
*** ** * * ***** **

FIG. 6.
(3/3)